

**Request to Archive
With The National Centers for Environmental Information
For Digitized hourly precipitation data
Provided by NOAA/NWS/NWC**

2015-04-20

This information will be used by NCEI to conduct an appraisal and make a decision on the request.

1. Who is the primary point of contact for this request?

Michael St Laurent
UCAR/COSMIC
Meteorologist / Scientific Programmer
3014279545
michael.stlaurent@noaa.gov
In case I am not in the office, my cell is 401.524.0591

2. Name the organization or group responsible for creating the dataset.

Hydrometeorological Design Studies Center

3. Provide an overview summarizing the scope of data you want to archive. Describe the outputs, data variables, including their measurement resolution and coverage.

During development of precipitation frequency estimates for the Northeastern United States (NOAA Atlas 14 Volume 10), we came across NCDC's EV2 system (<https://www.ncdc.noaa.gov/EdadsV2/login>) and noticed that hourly precipitation data was available as scanned forms before May 1948. As time allowed, we digitized this data for a few select COOP station IDS: 065266 (both hourly and daily data), 065273 (hourly), 190770 (hourly), 300047 (hourly), 305816 (hourly). The forms used were a combination of the WPA hourly precipitation (<https://www.ncdc.noaa.gov/EdadsV2/library/WPAHourlyPrecipData>), Hydrological Bulletin (https://www.ncdc.noaa.gov/EdadsV2/library/HYDROLOGICAL_BULLETIN), and others in the EV2 system. We thought it would be helpful for our group to share this data with NCDC for historical archival. The time periods for each ID digitized are below.

065266; daily precipitation; 1873 - 1899
065266; hourly precipitation; 1899 - 1943
065273; hourly precipitation; 1943 - 1948
190770; hourly precipitation; 1892 - 1948
300047; hourly precipitation; 1897 - 1948
305816; hourly precipitation; 1889 - 1948

We can provide this data in any recommended format (Excel, csv, etc).

4. What is the time period covered by the dataset? (YYYY-MM-DD, YYYY-MM or YYYY)

From 1873-01-01 to 1948-05-01

5. Edition or version number(s) of the dataset:

N/A

6. Approximate date when the dataset was or will be released to the public:

2015-04-20

7. Who are the expected users of the archived data? How will the archived data be used?

We will need the assistance of NCDC to pass this data off. We feel that NCDC is the target location for this historical data.

8. Has the dataset undergone user evaluation and/or an independent review process? Did NCEI participate in design reviews?

The data was hand-keyed from PDF scanned observation forms on the EV2 website. The highest value for each year for a variety of accumulation lengths were manually QA/QC'd by our team.

9. Describe the dataset's relationship to other archived datasets, such as earlier versions or related source data. If this is a new version, how does it improve upon the previous version(s)?

This data extends the hourly precipitation archive (ftp://ftp.ncdc.noaa.gov/pub/data/hourly_precip-3240/) at NCDC. Currently, NCDC's archive has data starting in May-1948 for most stations.

10. List the input datasets and ancillary information used to produce the data.

Digitized data from scanned PDF forms on the EV2 website: <https://www.ncdc.noaa.gov/EdadsV2/libraries>

11. List web pages and other links that provide information on the data.

Most of the data was from scanned observation forms on:

<https://www.ncdc.noaa.gov/EdadsV2/library/WPAHourlyPrecipData>

https://www.ncdc.noaa.gov/EdadsV2/library/HYDROLOGICAL_BULLETIN

https://www.ncdc.noaa.gov/EdadsV2/library/CLIMATOLOGICAL_DATA

<https://www.ncdc.noaa.gov/EdadsV2/library/LCD>

<https://www.ncdc.noaa.gov/EdadsV2/library/SWO1001>

12. List the kinds of documents, metadata and code that are available for archiving. For example, data format specifications, user guides, algorithm documentation, metadata compliant with a standard such as ISO 19115, source code, platform/instrument metadata, data/process flow diagrams, etc.

1. This is raw precipitation data.

13. Indicate the data file format(s).

1. CSV

14. Are the data files compressed?

gzip

15. Provide details on how the files are named and how they are organized (e.g., file_name_pattern_YYYYMM.tar in monthly aggregations).

durtype_digitizing_COOPID.csv

for example, for hourly precipitation at 065266:

hly_digitizing_065266.csv

16. Explain how to access sample data files and/or a file listing for previewing. If it is not available now, when will it be available?

17. What is the total data volume to be submitted?

Historic Data: all historic data or data submitted as a completed collection.

Total Data Volume: 5MB

Number of Data Files: 6

18. Are later updates, revisions or replacement files anticipated? If so, explain the conditions for submitting these additional data to the archive.

As time allows, we will try to digitize other stations in future NOAA Atlas 14 work.

19. Describe the server that will connect to the ingest server at NCEI for submitting the data.

Physical Location: Silver Spring, MD

System Name: amazon

System Owner: NOAA/NWS/NWC

Additional Information: The data is offline and is small in size

20. What are the possible methods for submitting the data to NCEI? Select all that apply.

1. FTP PUSH

2. SFTP PUSH

3. Physical Media Delivery

Email attachment since data size is small

21. Identify how you would like NCEI to distribute the data. Web access support depends on the resources available for the dataset.

22. Will there be any distribution, usage, or other restrictions that apply to the data in the archive?

Constraint Type	Description
Other	"Trace" precipitation flags were not recorded during our digitizing process. "0"s are used instead.

23. Discuss the rationale for archiving the dataset and the anticipated benefits. Mention any risks associated with not archiving the dataset at NCEI.

This data extends the hourly precipitation archive for select stations back before 1948, potentially adding 40-50 years of hourly precipitation data for each station (nearly doubling the precipitation record length at these stations).

24. Are the data archived at another facility or are there plans to do so? Please explain.

No

25. Is there an existing agreement or requirement driving this request to archive? Have you already contacted someone at NCEI?

I've contacted NCDC through NCDC.orders@noaa.gov to ask how/where to archive data. Jason Cooper kindly pointed me in the right direction to the ATRAC system.

26. Do you have a data management plan for your data?

No

27. Have funds been allocated to archive the data at NCEI?

No

28. Identify the affiliated research project, its sponsor, and any project/grant ID as applicable.

NOAA Atlas 14 Volume 10

<http://hdsc.nws.noaa.gov/hdsc/pfds/>

29. Is there a desired deadline for NCEI to archive and provide access to the data?

No deadlines for archive or access.

30. Add any other pertinent information for this request.

None